Homework 8: From Language to Logic

Course: CS 221 Spring 2019
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In this assignment, you will get some hands-on experience with logic. You'll see how logic can be used to represent the meaning of natural language sentences, and how it can be used to solve puzzles and prove theorems. Most of this assignment will be translating English into logical formulas, but in Problem 4, we will delve into the mechanics of logical inference.

Problem 1: Propositional Logic

(a) coding

(b) coding

(c) coding

Problem 2: First-Order Logic

(a) coding

(b) coding

(c) coding

(d) coding

Problem 3: Liar Puzzle

(a) coding